

### Abstract

The object of the present invention is to greatly improve PDPs in luminance and luminous efficiency, compared to conventional PDPs.

- 5        In order to achieve the object, the panel structure is set such that an equivalent field strength of at least 37V/cm · KPa is generated in selected discharge spaces in which the electric charge has been accumulated on their dielectric layer, when a discharge sustaining voltage is  
10       applied between a pair of display electrodes.

- To achieve such a high equivalent field strength as 37V/cm · KPa, adequate setting of the following factors of the panel structure is effective: a gap between a pair of display electrodes, a thickness and a permittivity of a  
15       dielectric layer, and an amount of Xe filled in discharge spaces.